

ABSTRACT

This invention relates to new use of marine cyano bacterium *Lyngbya*, *Oscillatoria*, *Spirulina*, *Anabaena* and *Synechocystis* being deposited with ATCC having accession no for the removal of calcium ions from sea-brine and sub-soil brine having density range 10 to 25.5°Be', said use comprising culturing the cyanobacteria, inoculating the said cyanobacteria culture to raw brine of 10 to 25.5°Be', filtering the resultant mixture to obtain a brine having less calcium and to separate the cyanobacteria which can be reused if desired.

TITLE

An Improved Process For The Removal Of Calcium Ions From The Brine By Marine Cyanobacteria

ABSTRACT

This invention relates to new use of marine cyano bacterium *Lyngbya*, *Oscillatoria*, *Spirulina*, *Anabaena* and *Synechocystis* being deposited with ATCC having accession numbers ATCC PTA-4602 and 4603 for the removal of calcium ions from sea-brine and sub-soil brine having density range 10 to 25.5 °Be', by culturing the cyanobacteria, inoculating the cyanobacteria culture to raw brine of 10 to 25.5 °Be', filtering the resultant mixture to obtain a brine having less calcium, and separating the cyanobacteria which can be reused if desired.